



魚諸作成の図（長崎市立博物館蔵）
（甲斐宗平画伯筆による当時の推定図）

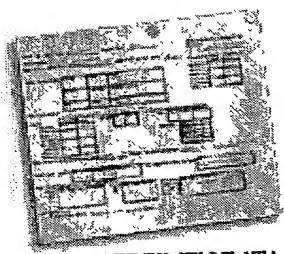
FIG. 1 (PRIOR ART)

REPORT
on the
SCIENTIFIC RESULTS
of the
EXPLORING VOYAGE
of
H.M.S. CHALLENGER
1873-76

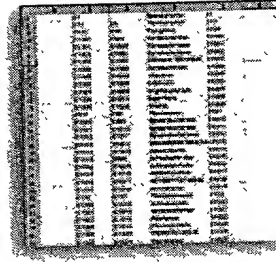
10037621.000100



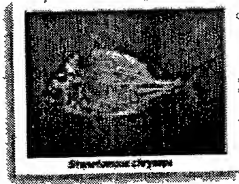
FIG. 3
(PRIOR
ART)



SPECIMEN DATA



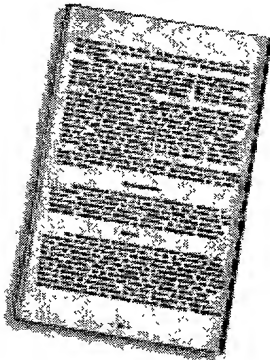
TABLES



PHOTOS



BINARY OBJECTS



MANUSCRIPT



DOCUMENTS

FIG. 4 (PRIOR ART)

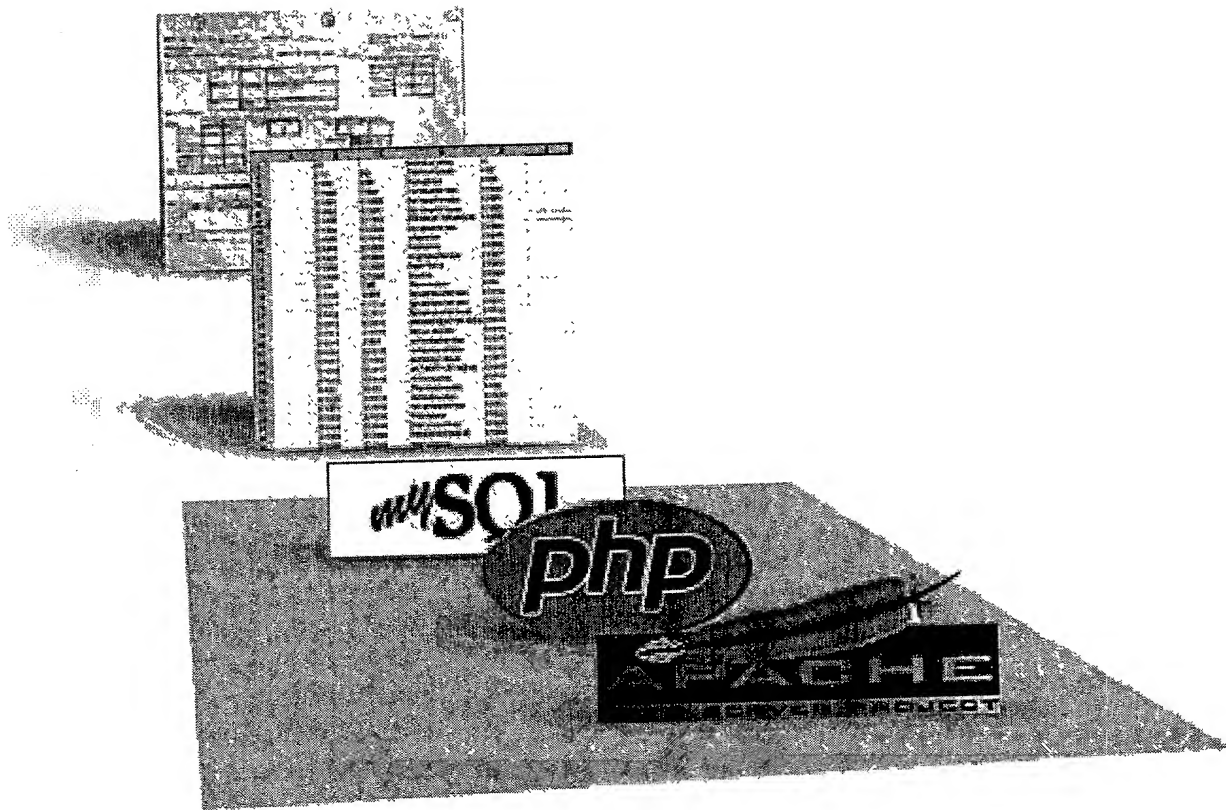


FIG. 5 (PRIOR ART)

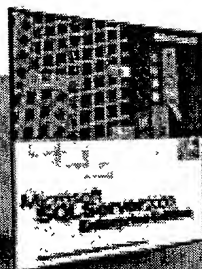
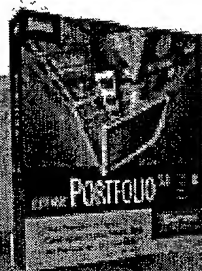


FIG. 6 (PRIOR ART)

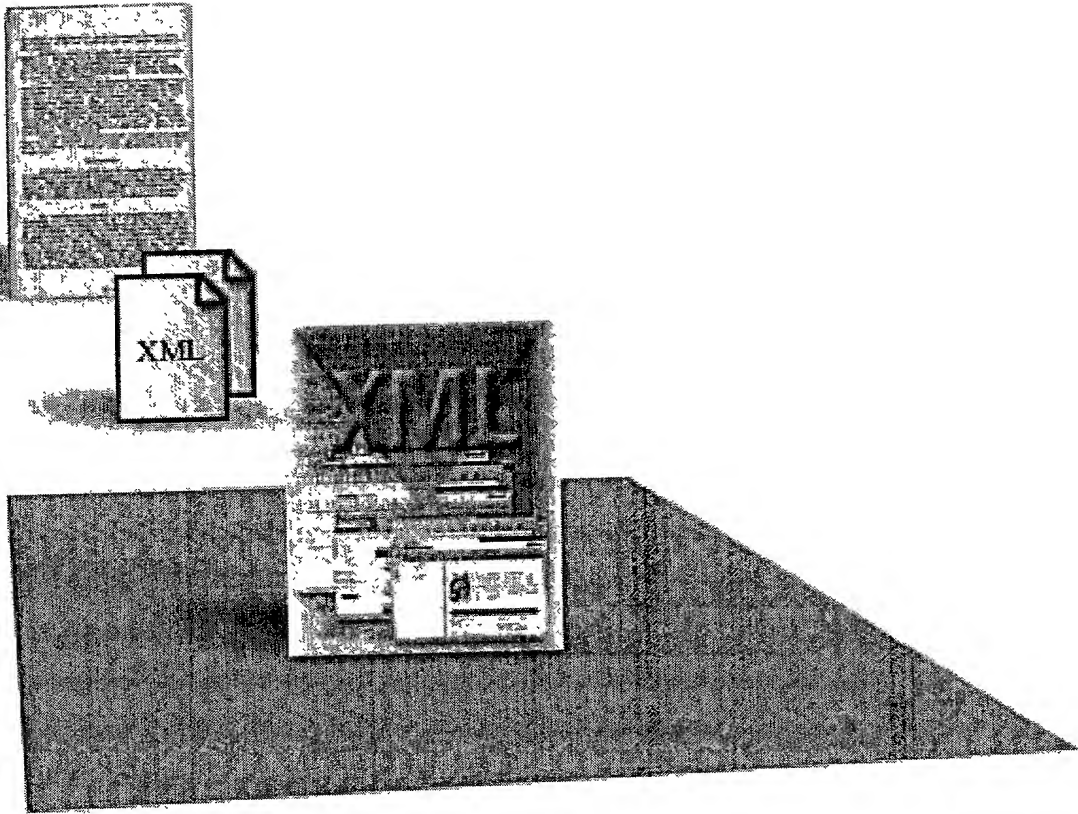


FIG. 7 (PRIOR ART)

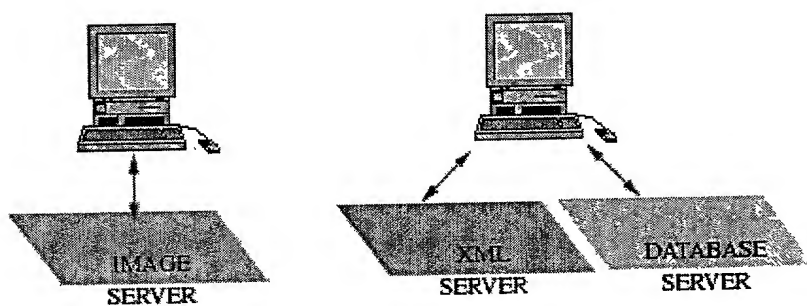
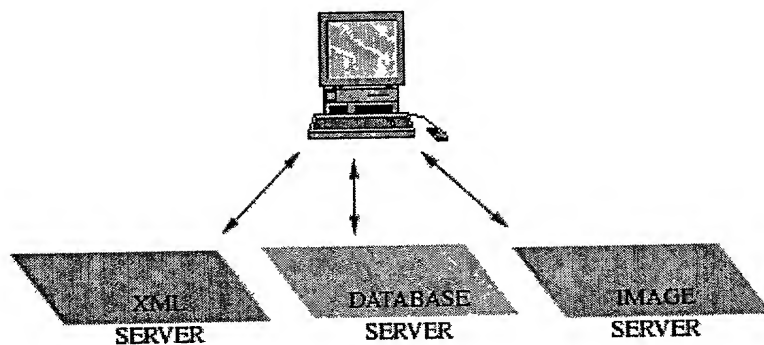


FIG. 8 (PRIOR ART)

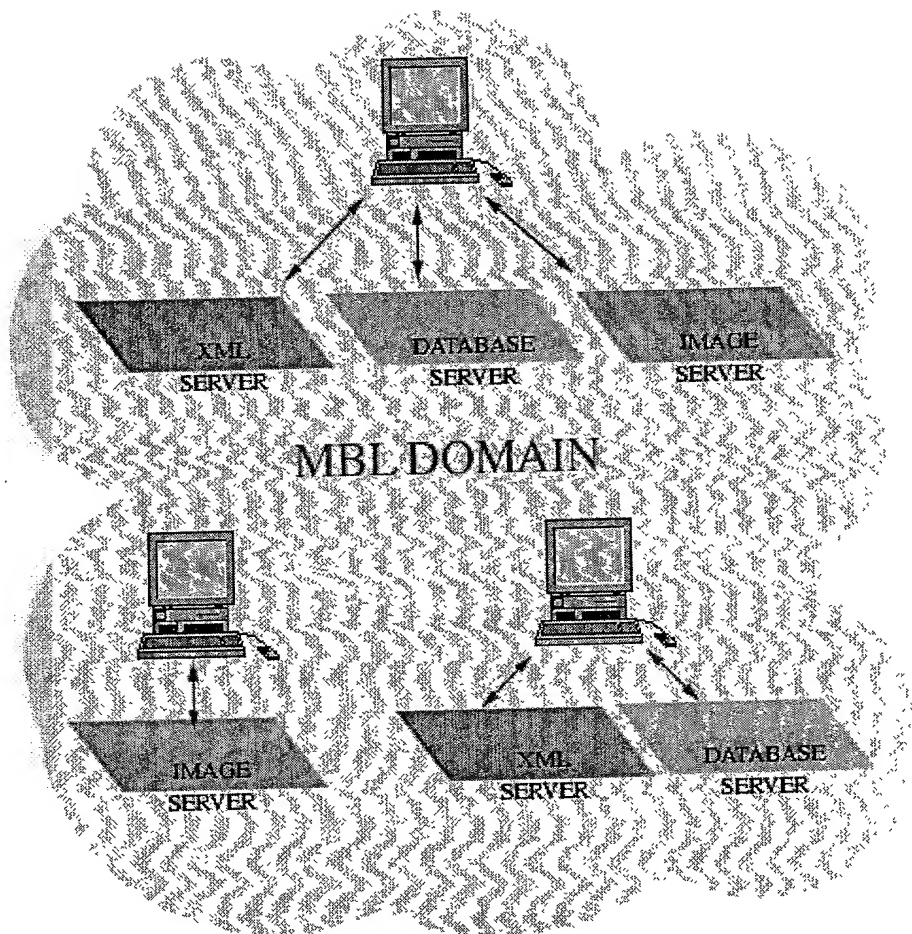


FIG. 9 (PRIOR ART)

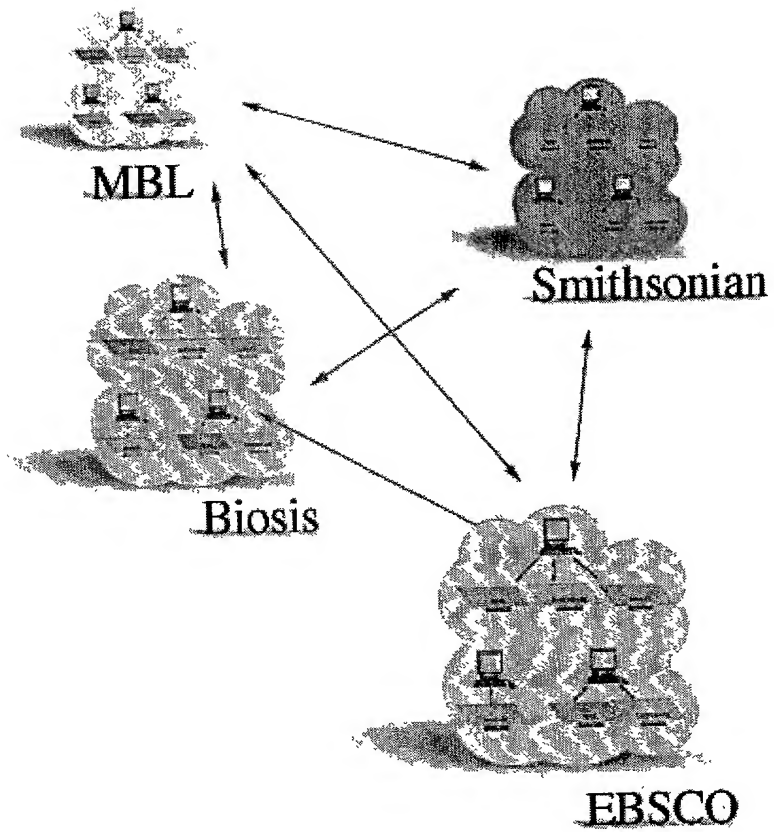


FIG. 10 (PRIOR ART)

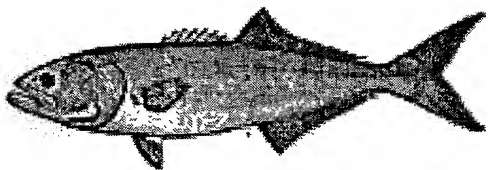


FIG. 11

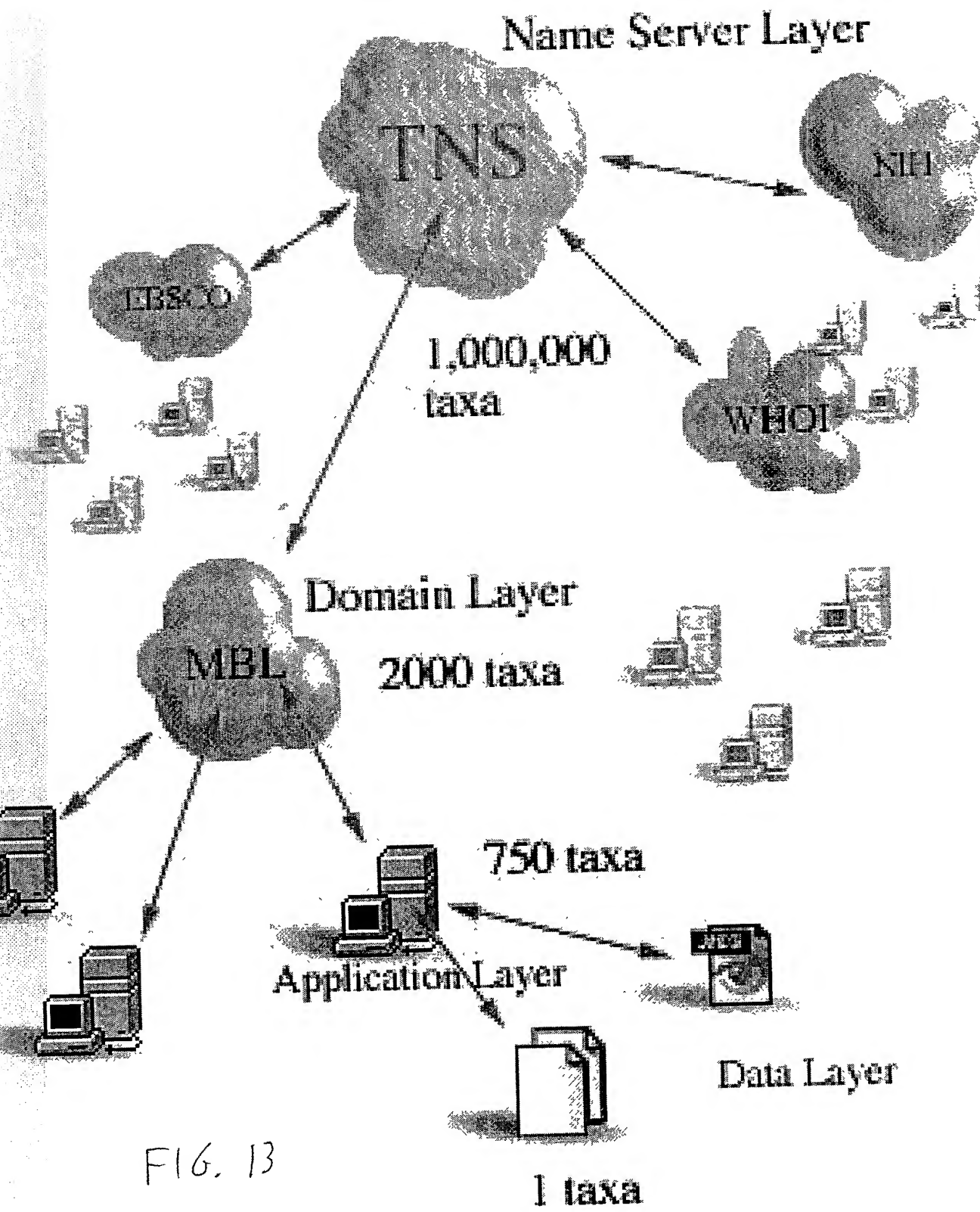
11

Patterson
. Organisms
... Eukaryote
..... Opisthokonts
..... Choanoflagellates And Animals
..... Metazoa
..... Chordata
..... Vertebrata
..... Gnathostomata
..... Osteichthyes
..... Actinopterygii
..... Perciformes
..... Pomatomidae
..... Pomatomus
..... Pomatomus saltator

Margulis
Animalia
.Chordata
..Craniata
... Gnathostomata
..... Osteichthyes
..... Actinopterygii
..... Perciformes
..... Pomatomidae
..... Pomatomus
..... Pomatomus saltator

FIG. 12

2025 RELEASE UNDER E.O. 14176



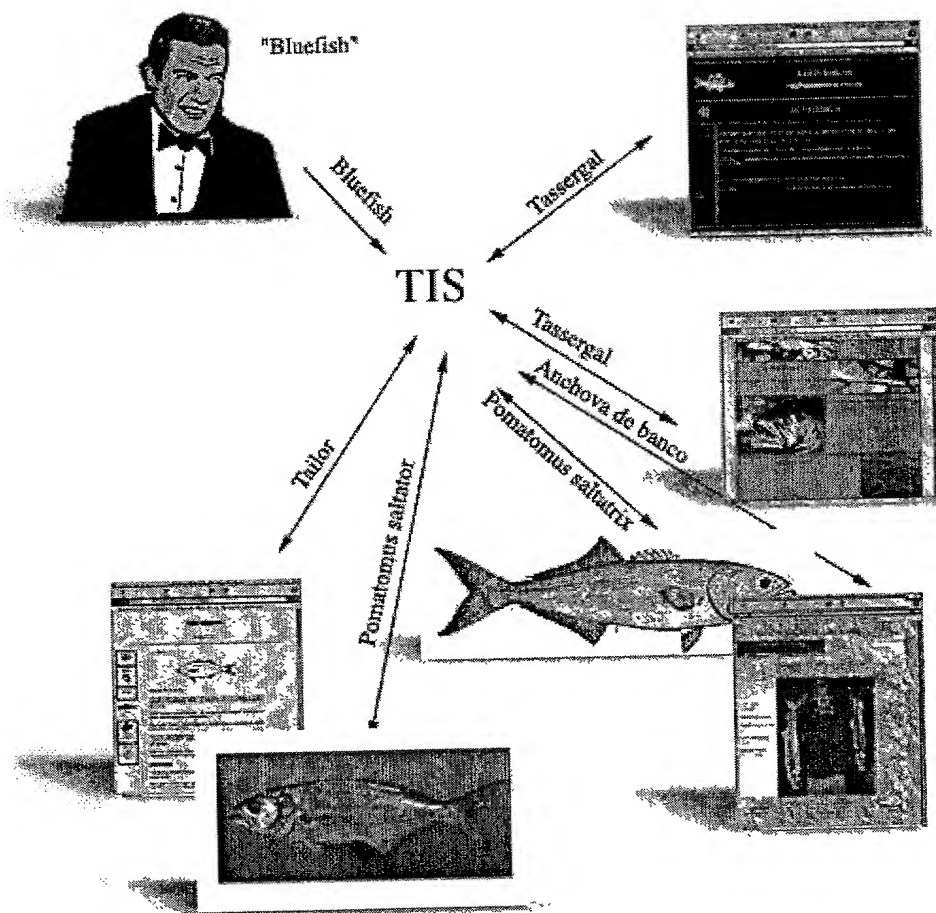


FIG. 14

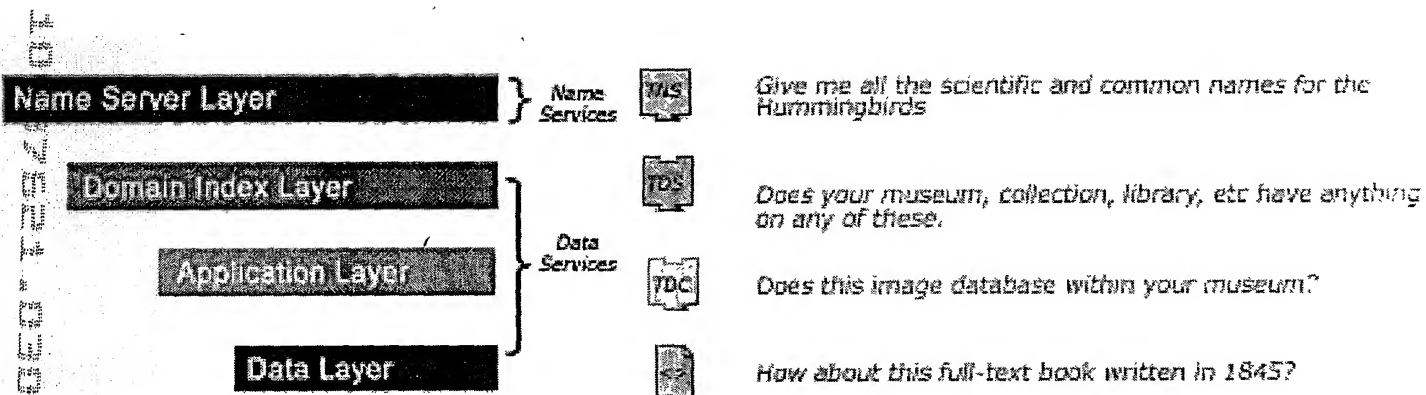


FIG. 15

Scientific names for the bluefish, *Pomatomus saltator*

Cheilodipterus heptacanthus
Cheilodipterus saltatrix
Chromis epicurorum
Gasterosteus saltatrix
Gonenion serra
Lopharis mediterraneus
Perca lophar
Pomatomus pedica
Pomatomus saltator
Pomatomus saltatrix
Pomatomus skib
Scomer sypterus
Sparactodon nalnal
Sypterus pallasii
Temnodon conidens
Temnodon saltator
Temnodon tubulus

Other names

Bluefish (FAO/English)
Tassergal (FAO/French)
Anjova (FAO/Spanish)
Sinikala (Finnish)
Blaufisch (German)
Gofári (Greek)
Pesce serra (Italian)
Amikiri (Japanese)
Anchova (Portuguese)
Plitica (Serbo-Croat)
Strijelka skakusa (Serbo-Croat)
Lüfer (Turkish)
Blue-fish (English)
Anchova (Portuguese)
Bluefish (AFS/English)
Shad (English)
Elf (English)
Tekwaya (Arabic)
Tekwa (Arabic)
Tasergal (Polish)
Teleskopabborre (Swedish)
Dyphavsabbor (Norwegian)
Enchova (Portuguese)
Tailor (English)
Skipjack (English)
Anchova de banco (Spanish)
Elwe (Afrikaans)

F16. 16

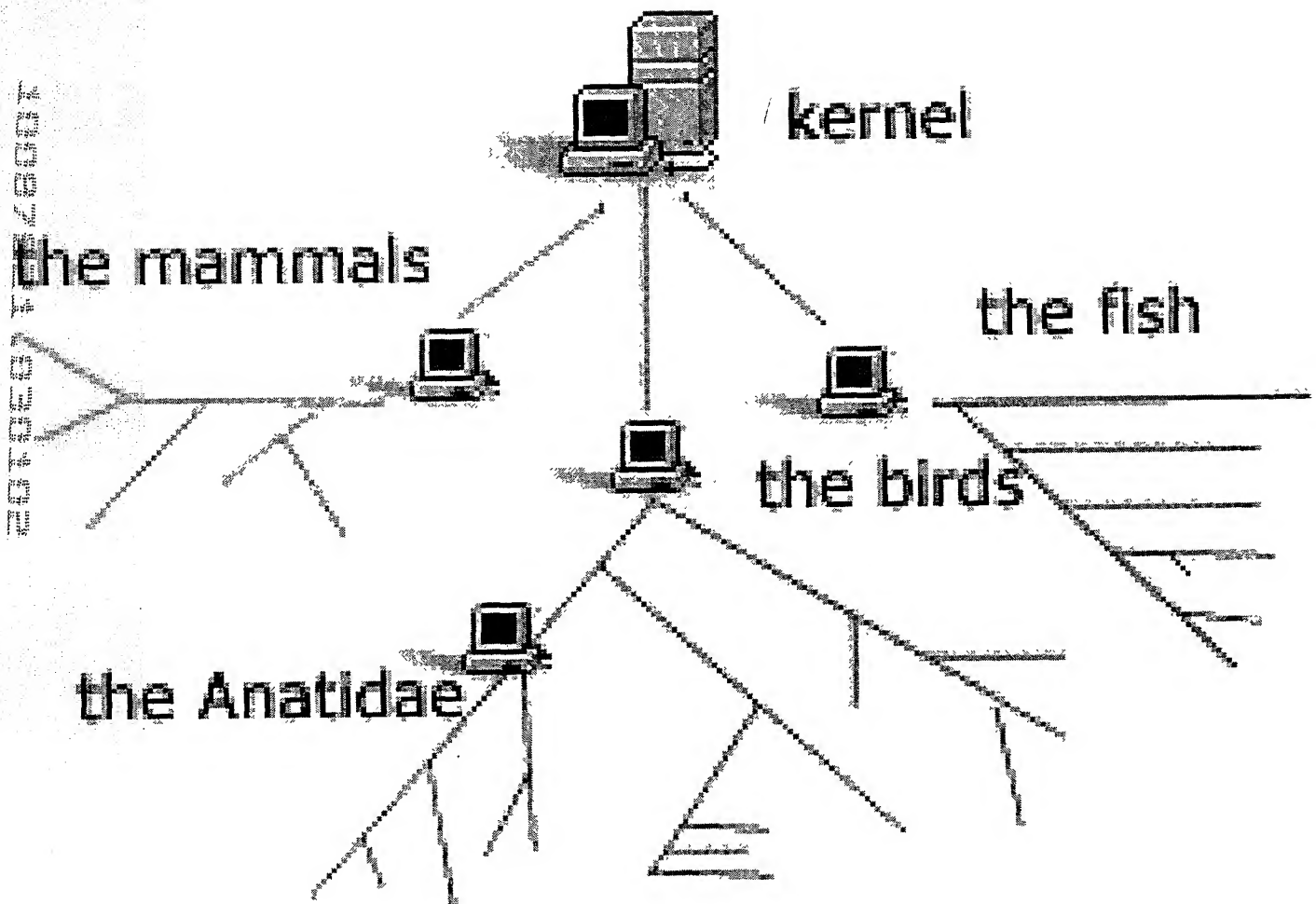


FIG. 17

Taxonomic Name Server
provides expert name and
classification data

MBL Taxonomic
Data Server

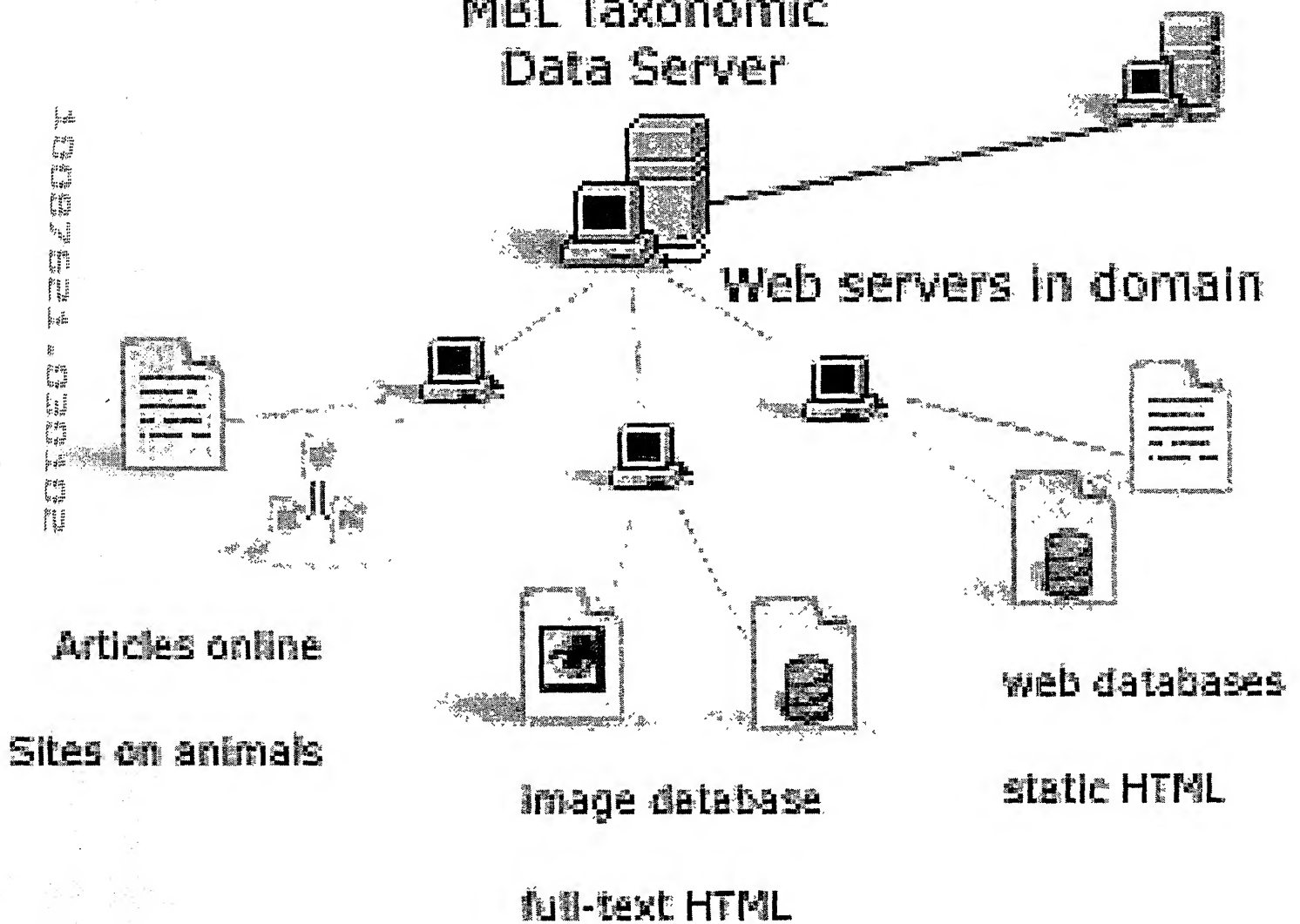


FIG. 18

FIG. 19

Function name	What it does
<code>classifications();</code>	returns the canonical list of classifications from the name server
<code>me(\$myID,\$d,\$type,\$l)</code>	returns the name of entity myID according to the type attribute provided
<code>name_types(\$d);</code>	returns a \$d delimited array of name types such as "English,French,ICZN-Current, Synonym, Misspelling, etc.
<code>chroot(\$myID,\$classification)</code>	sets the name server root of the application to \$myID. Sets parent of myID to zero. Allows developers of taxa specific applications to only use relevant parts of the classification
<code>names(\$myID,\$d,\$order,\$l)</code>	returns an ary delimited by string, \$d
<code>children(\$myID,\$d,\$classification,\$type,\$order,\$l)</code>	returns an array of the children on \$myID according to the classification \$classification. Other options include the name type to return, sort order, etc.
<code>parent(\$myID,\$d,\$classification,\$type,\$order,\$l)</code>	Ancestry of \$myID with many output options
<code>list_my_children(\$myID)</code>	A recursive function for dumping tree information.
<code>get_name(\$myID,\$name_type,\$date,ref)</code>	Return a specific name for a taxa such as the French form or the currently accepted name or a junior synonym.
<code>classify(\$myID,\$classification,\$length)</code>	Returns an array of ancestry for a given classification to a given number of steps relative to the taxa. A length of 0 returns to the tree root.
<code>names(\$myID,\$fields)</code>	Returns an array of all names for a given taxonomic entity. Fields returned in the array can be specified.
<code>dump(\$myID,\$delimiter,\$fields,\$classification)</code>	Dumps from myID down in spreadsheet form
<code>pad(\$myID,\$s,\$class,\$root) -</code>	Delimiters used to pad the taxonomic level type. Ex (pad (AR201,"=-","1C",5) outputs "=-=-=-=-=-" because according to classification "1C" this entity (a genus) would be indented six places to correspond to the six levels from the starting point of level "5" (corresponding to "Phylum") from the root of classification 1C.

FIG. 19



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directory















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search

Marine Animals at the MBL

Find

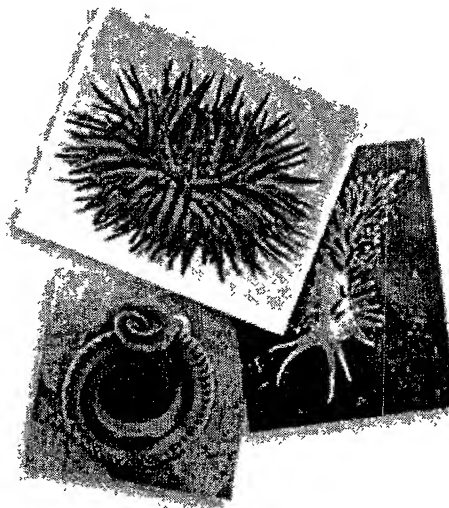
.... **Metazoa - >>**

- ▶  Annelida Segmented Worms
- ▶  Arthropoda Joint-legged animals
- ▶  Bryozoa Moss Animals
- ▶  Chaetognatha Arrow Worms
- ▶  Chordata Vertebrates and allies
- ▶  Cnidaria Coelenterates
- ▶  Ctenophora Comb Jellies
- ▶  Echinodermata Spiny-skinned Animals
- ▶  Hemichordata Acorn Worms
- ▶  Mollusca Mollusks
- ▶  Nemertea Ribbon Worms
- ▶  Platyhelminthes Flatworms
- ▶  Porifera Sponges
- ▶  Sipuncula Peanut Worms

Expand from Metazoa down. (560 taxa)

This program uses the Taxonomic Name Server for name authority information.

This database represents approximately 200 species of marine organisms available in our Marine Resources Center and collected by the Aquatic Resources Division. Most of these organisms are available for purchase by qualified educational institutions and researchers.



Server numbers

FIG. 20

Click on grouping at left for a listing of species

Data Server: zeus.mbl.edu

Back View

- SuperClass Pisces
- Class Actinopterygii
- Order Tetraodontiformes
- Family Tetraodontidae
- Genus Sphaeroides

- Sphaeroides testudineus
- Fugu
- Checkered puffer
- Crepaud de mer
- Sphaeroides testudineus
- Tetraodon testudineus
- Tetraodon punctatus
- Tetraodon punctatus

- ▶ Books
- ▶ Citations
- ▶ Classifications
- ▶ Collections
- ▼ Identification
 - ▼ Keys
 - ▶ Regional
 - ▶ Systematic
- ▶ Images
- ▶ Location

- ▼ Systematic Key to the Tetraodontidae
 - www.museo.ja/fish/key - LucID Key
 - Author: DP Remsen , 2001
 - ..+ matrix_id_200.1 "teeth bicuspidate.."
 - <6> images available <view thumbnail>
 - <import> <link>
- ▶ Key to the Common Fish of Jamaica
- ▶ Hofstra Univ. Field Station
- Fishes of the Caribbean
- University of California - Davis
- ▶ The Voyage of H.M.S. Challenger...
- MBL/WHOI Library

FIG. 21

- Cythere crispata*, Brady. Obtained also at Station 187 and Port Jackson. Hong Kong.
 „ *cymba*, Brady. Obtained also at Station 233B, 15 fathoms. Recorded from Hong Kong.
 „ *goujoni*, Brady. Obtained also at Station 187 and Port Jackson.
 „ *darwini*, Brady. Obtained also at Station 233B, 15 fathoms. Recorded from Java.
 „ *cribriformis*, Brady. Obtained at no other locality by the Challenger.
Lorconcha sinensis, Brady. Obtained also at Station 233B, 15 fathoms. Recorded from Hong Kong.
Bythocythere orientalis, Brady. Obtained also in Torres Strait.
Cytherella cingulata, Brady. Obtained also at Stations 187, 189, and Port Jackson.

MACRURA (Spence Bate, Zool. pt. 52).

- Alpheus rapax*, Fabricius. One specimen (10 fathoms); obtained at no other locality by the Challenger.
Nauticaris unirecedens, n.g., n.sp. One specimen; obtained at no other locality.

ANOMURA (Henderson, Zool. pt. 69).

- Spiropagurus spiriger* (De Haan). One specimen in shell of *Pleurotoma* (10 fathoms); for distribution see Torres Strait.
Porcellana serratifrons, Stimpson. One specimen (10 fathoms); obtained also in Arafura Sea.
Raphidopus ciliatus, Stimpson. One specimen (10 fathoms); obtained at no other locality by the Challenger. Recorded from Hong Kong.

BRACHYURA (Miers, Zool. pt. 49).

- Neptunus (Amphitrite) hastatoides* (Fabricius). Several specimens (10 fathoms); obtained also at Stations 188, 233B, and Japan.
Goniosoma cruciferum (Fabricius). One specimen (7 fathoms); obtained at no other locality by the Challenger.
Arcania septemspinosa (Fabricius). Three specimens (10 fathoms); obtained also at Station 233B, 15 fathoms, and Japan.
Leucosia craniolaris (Linné). Two specimens (10 fathoms); obtained also at Stations 188, 190, and Japan.
Dorippe facchino (Herbst). One specimen (10 fathoms); obtained at no other locality by the Challenger.

GASTEROPODA (Watson, Zool. pt. 42).

- Pleurotoma (Surcula) tuberculata*, Gray. (10 fathoms); obtained also in Arafura Sea.

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June, whereas they contain only smaller eggs after the early part of July. No individual, however, is actually known to have given birth to two broods in a single summer.

The sand shark, *Carcharias littoralis*, the most common shark at Woods Holl during the summer, so far as I know, has never been taken during the breeding season, all the individuals being apparently imma-

ture. The spring and fall seasons are the same.

FIG. 23

The Bluefish, *Pomatomus saltator*

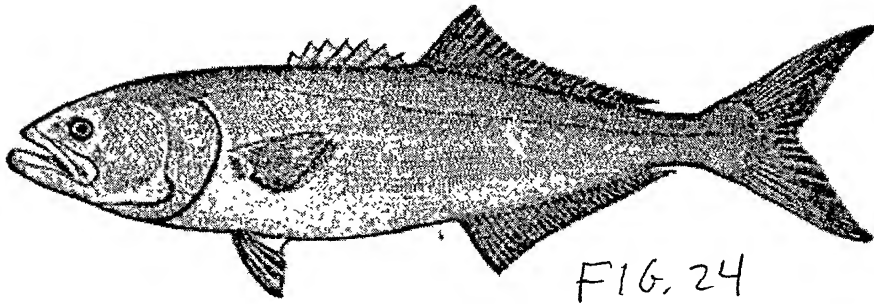


FIG. 24

10027524 2424

MBL Search: Pomatomus saltator

Back Forward Stop Refresh Home AutoFill Print Mail

Address: http://zeus.mbl.edu/search/search.php3?ps=10&q=Pomatomus+saltator&ul=&q=0&ps=20 go

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Search for: Pomatomus saltator

Search!

Search what: Entire site

Output format: Long

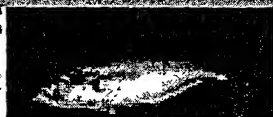
Results per page: 20

Search results:

Sorry, but search returned no results.

Try to produce less restrictive search query.

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Common Names of *Panulirus setiferus*

Approved for Release by NSA on 08-25-2014 pursuant to E.O. 13526

Synonyms of *Panatomus saliator*

Synonym	Author	Status
<i>Pomatoceros salutaris</i>	Linnaeus, 1766	misspelling
<i>Gasteroceros salutaris</i>	Linnaeus, 1766	original combination
<i>Pomatoceros salutaris</i>	Linnaeus, 1766	new combination
<i>Ternstroemia salutaris</i>	Linnaeus, 1766	new combination
<i>Pomatoceros salutaris</i>	Linnaeus, 1766	new combination
<i>Chalcidoceros salutaris</i>	Linnaeus, 1766	new combination
<i>Prora larcher</i>	Forsk. 1775	junior synonymy
<i>Chalcidoceros larcherianus</i>	Lacepède, 1801	junior synonymy
<i>Pomatoceros albi</i>	Lacepède, 1802	junior synonymy
<i>Lophoceros mediterraneus</i>	Rafinesque, 1810	junior synonymy
<i>Gonionotus terra</i>	Rafinesque, 1810	junior synonymy
<i>Komer nycterus</i>	Pallas, 1814	junior synonymy
<i>Systenus pallasi</i>	Eschsch. 1831	junior synonymy
<i>Chamae spicatus</i>	Günther, 1834	junior synonymy
<i>Ternstroemia gaudichii</i>	Catalani, 1861	junior synonymy
<i>Sporocladia nathal</i>	Reichenow, 1899	junior synonymy
<i>Ternstroemia subnata</i>	Savile-Kent, 1893	other

Bluefish (E)
Pomatomus saltator (LVN)
Cheilodipterus heptacanthus (Syn)
Cheilodipterus saltatrix (Syn)
Chromis epicurorum (Syn)
Gasterosteus saltatrix (Syn)
Gonion serra (Syn)
Lepomis mediterraneus (Syn)
Perca loquax (Syn)
Pomatomus pedica (Syn)
Pomatomus saltatrix (Syn)

omus skib (Syn)
r sypterus (Syn)
don nainal (Syn)
us pallasii (Syn)
on condens (Syn)
on saltator (Syn)
on tubulus (Syn)
Chopper (E)
Tailor (E)
napper Blue (E)
Amikiri (Jap)
Ach'ked (Arab)
Anchova (Port)
a de banco (Sp)
Anjova (Sp)
Blaufisch (Ger)
Blue-fish (E)
havsabbor (Nor)
Elf (E)
Elwe (Afr)
Enchova (Port)
Gofári (Gree)
Lüfer (Turk)

Pesce	Amara	Chalcididae
Plitica	Amara	Pezomachus
Shad (E)	Amara	Chalcididae
Sinikala	Amara	Pomatoma
Skipjaci	Amara	Lophanthus
Strijelka skaku	Amara	Gnathocentrus
Tasergal (Poli)	Amara	Kramer
Pomatoma sa	Amara	Syntherisma
Tassergal (Fr)	Amara	Chalcididae
Tekwa (Arab)	Amara	Temnodon
Tekwaya (Arab)	Amara	Syntherisma
Teleskopabborre (Sw)	Amara	Temnodon

.....SuperClass Pisces
Class Actinopterygii
Order Perciformes
Family Pomatomidae
Genus Pomatomus
Binomen Pomatomus saltator

Species Summary for Pomatomus saltator (Pom.)



Common Names of Pomatomus saltator

Summary
 Distribution
 Ecology
 Life History
 Management
 Conservation
 Bibliography
 Images
 Links
 Other

Summary Distribution Ecology Life History Management Conservation Bibliography Images Links Other

Page

Synonyms of <i>Pomatomus saltator</i>		
Synonym	Author	Status
<i>Pomatomus saltator</i>	Linnaeus, 1766	misapplied
<i>Gasterosteus saltator</i>	Linnaeus, 1766	original combination
<i>Pomatomus saltator</i>	Linnaeus, 1766	new combination
<i>Tenisonius saltator</i>	Linnaeus, 1766	new combination
<i>Pomatomus saltator</i>	Linnaeus, 1766	new combination
<i>Chelodactylus saltator</i>	Linnaeus, 1766	new combination
<i>Perca lochei</i>	Forsk., 1775	junior synonym
<i>Chelodactylus heptacanthus</i>	Linnaeus, 1801	junior synonym
<i>Pomatomus steb</i>	Linnaeus, 1802	junior synonym
<i>Lophotus mediterraneus</i>	Rafinesque, 1810	junior synonym
<i>Gasterosteus tenuis</i>	Rafinesque, 1810	junior synonym
<i>Scorpaenopsis</i>	Pallas, 1814	junior synonym
<i>Syngnathus pallasi</i>	Eschscholtz, 1831	junior synonym
<i>Onchaspis ephippium</i>	Günther, 1834	junior synonym
<i>Tenisonius tenuis</i>	Cuvier, 1836	junior synonym
<i>Sparactodon nathal</i>	Richardson, 1880	junior synonym
<i>Tenisonius subitus</i>	Snyder-Kent, 1893	other

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Displaying documents 1-4 of total 4 found.

1. Macrofauna description [2]

Description of the Macrofauna in Plum Island Sound Macrofauna are abundant and diverse throughout the Plum Island Sound estuary. Twenty eight species of fish have been recorded in the brackish to marine areas and another 10 from the freshwater portion...

- <http://ecosystems.mbl.edu/PIE/data/HTL/HTLDescription.htm> (text/html) Wed, 19 Jul 2000 15:11:39 GMT, 3406 bytes

2. No title [2]

DATE STATION STATE X STATE Y LAT LON SPECIES TOTAL WEIGHT 23-Sep-1993 HTL-PR-21 247524.8 944832.3 42.75263608 70.91949172 Alosa aestivalis 1 1.2 20-Oct-1993 HTL-PR-21 247524.8 944832.3 42.75263608 70.91949172 Apeltes quadracus 1 0.6 23-Nov-1993 HTL-P...

- <http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-Survey.txt> (text/plain) Wed, 19 Jul 2000 14:53:41 GMT, 174862 bytes

3. No title [2]

STATION STATE X STATE Y LAT LON SAL SITE NAME SCI NAME 15N 13C 34S HTL-SO-3(Knob) 257402.95 942546.27 42.73139029 70.79906604 30 MID sand shrimp Crangon septemspinosa 10.5 -16.3 8.6 HTL-SO-5(Sub Headquarters) 256334.1 945265.44 42.75594527 70.81184907...

- <http://ecosystems.mbl.edu/PIE/data/HTL/HTL-PR-isotope.txt> (text/plain) Wed, 19 Jul 2000 14:18:16 GMT, 8767 bytes

4. No title [2]

Plum Island Ecosystem Long Term Ecological Research (PIE-LTER) LMER Intercomparison Stable Isotope Data Set Updated 2/14/97 Organic matter Real/measured Forward model stable isotope data Budgets stable...

- <http://ecosystems.mbl.edu/PIE/data/STP/STP-VA-OMinterisotope.txt> (text/plain) Wed, 19 Jul 2000 15:18:07 GMT, 20535 bytes

MBL Name Server

412 species

14 phyla

1127 names

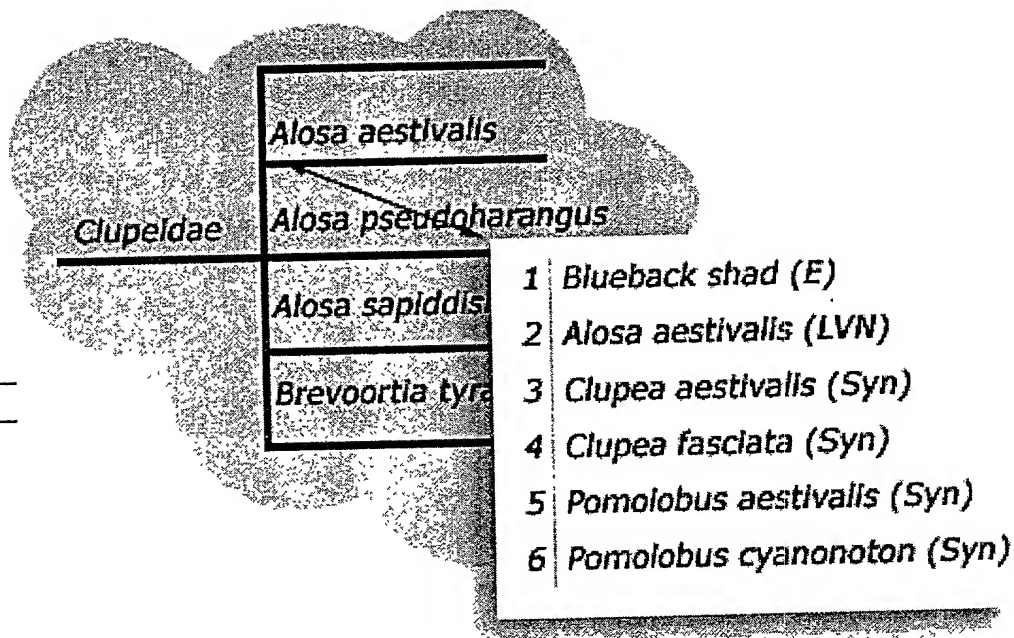
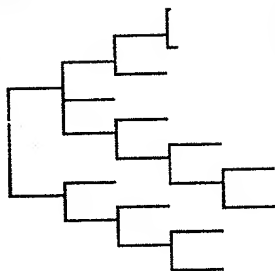


FIG. 29

Classification: ICLARM:FishBase

SuperClass Pisces
Class Actinopterygii
Order Perciformes
Family Pomatomidae
Genus Pomatomus
Binomen Pomatomus saltator

Names:

Bluefish (E)
Pomatomus saltator (LVN)
Cheilodipterus heptacanthus (Syn)
Cheilodipterus saltatrix (Syn)
Chromis epicurorum (Syn)
Gasterosteus saltatrix (Syn)

Links: Pomatomus saltator

MBL

Database of Marine Organisms
The Flescher Slides Collection
The Biological Bulletin Citations Database
MRC Catalog of Specimens
Compendium of Eggs and Embryoes
The Teaching Charts of Rudolph Leuckart

FIG. 30

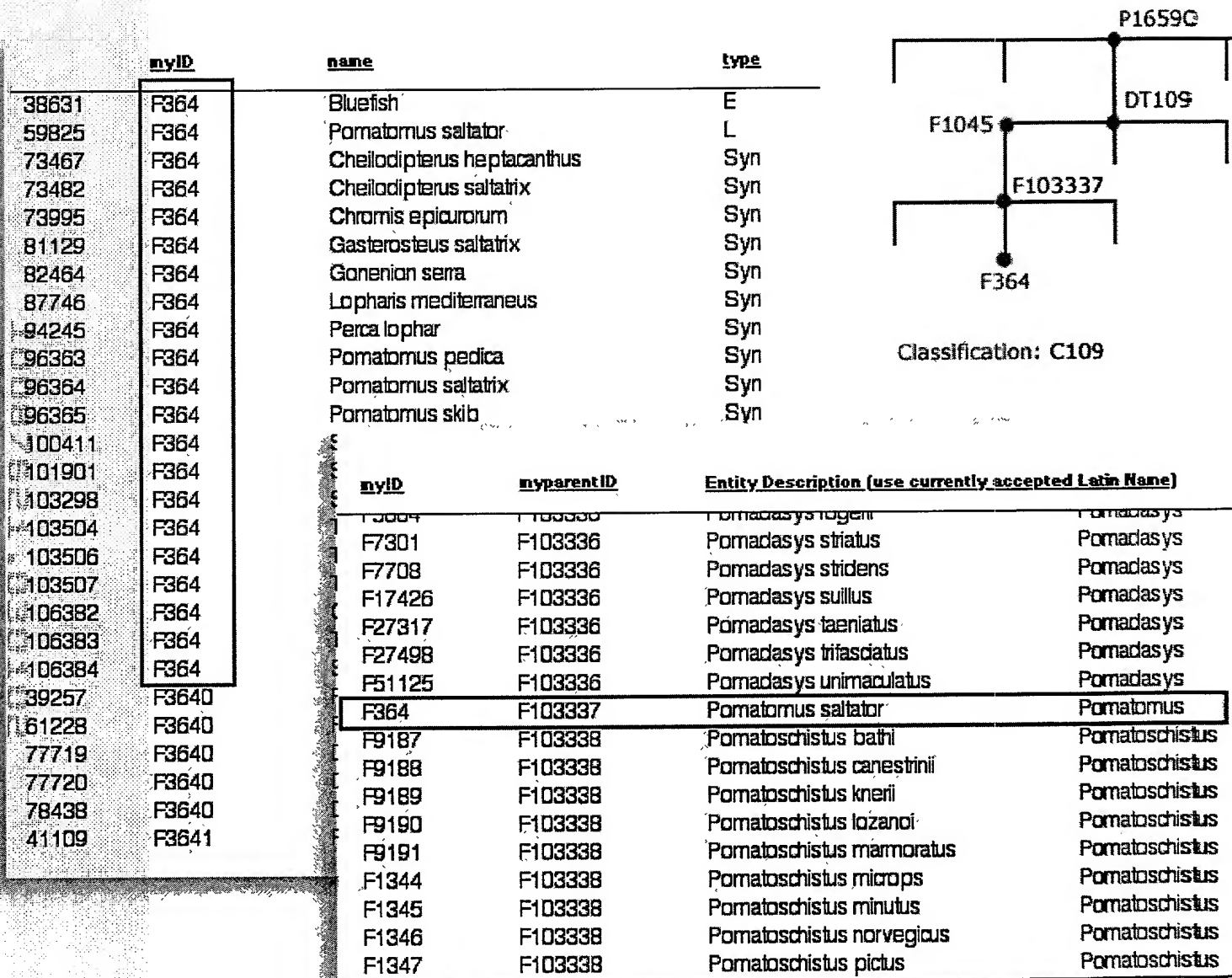


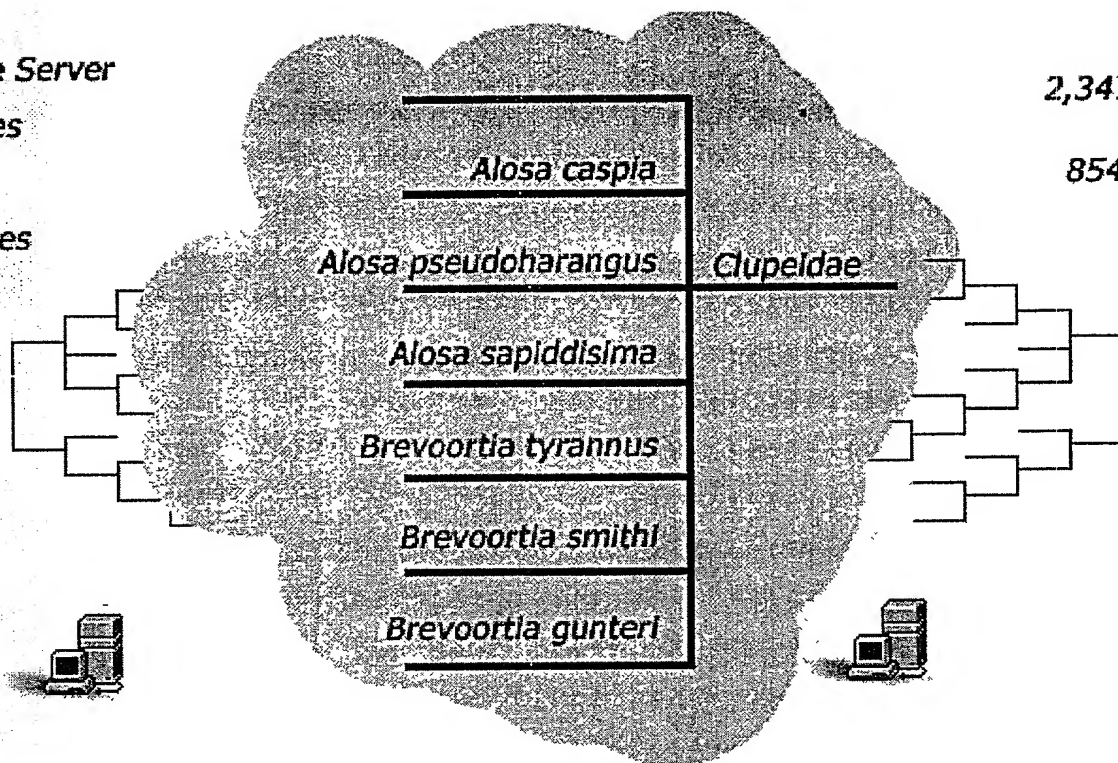
FIG. 31

MBL Name Server

412 species

14 phyla

1127 names



WHOI
2,347 species
15 phyla
8543 names

FIG. 32

Classification: ICLARM:FishBase

...SuperClass Pisces
.....Class Actinopterygii
.....Order Clupeiformes
.....Family Clupeidae
.....Genus Brevoortia
.....Binomen **Brevoortia tyrannus**

Names:

Atlantic menhaden (E)
Brevoortia tyrannus (L)
Clupea carolinensis (Syn)
Clupea menhaden (Syn)
Clupea neglecta (Syn)
Clupea tyrannus (Syn)

Links: *Brevoortia tyrannus*

MBL

.. Database of Marine Organisms
.. The Fleischer Slides Collection
.. The Biological Bulletin Citations Database
.. MRC Catalog of Specimens
.. Compendium of Eggs and Embryoes
.. The Teaching Charts of Rudolph Leuckart

Woods Hole Oceanographic Institution

.. Discovery: The Salt Marsh
.. Mariner Library Catalog
.. Oceanus Magazine: Oct 1983 Issue
.. JASON Project: 1997 Fisheries Worldwide
.. Laboratory of Dr. Peter Cummins

FIG. 33



ASTROBIOLOGY

microscope

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found 4 images matching Massistena

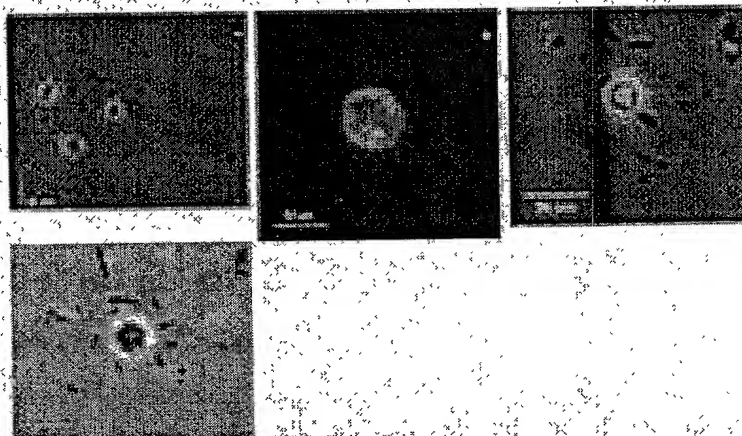


FIG. 34

Amure (Henderson, Zool. pt. 62).

Station 123.

Parapagrus agassizii, M. Edwards. Three specimens in shells of *Lentulus* and *Pleuratoma*; obtained also at Stations 56, 105, 195, 202, 218, 237, 300, 304, and 335.

FISHES (Günther, Zool. pt. 57).

Ipnots murrayi, n.g., n.sp. Two specimens; obtained also at Stations 124 and 198. Only species of the genus.

In addition to the foregoing, the following are recorded in the same locality:

Parapagrus agassizii, M. Edwards. Three specimens in shells of *Lentulus* and *Pleuratoma*; obtained also at Stations 56, 105, 195, 202, 218, 237, 300, 304, and 335.

In addition to the foregoing, the following are recorded in the same locality:

excluding *Protodon*, also at this Station, belonging to representatives of a new genus.

Willebrandt writes: "The fauna is not very different from the Hawaiian Islands. Some of the species were represented by species differing from the Hawaiian ones."

Ipnots murrayi

Ipnots pristibrachium

Ipnots agassizii

Ipnots pristibrachium

Split in 1927 into

Ipnots murrayi

Ipnots pristibrachium

dTNS (distributed Taxonomic Name Server)

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..... [Osteichthyes](#) (D1555)
.....Class [Actinopterygii](#) (F192005)
.....Order [Perciformes](#) (F180037)
.....Family [Pomatomidae](#) (F175393)
.....Genus [Pomatomus](#) (F103337)
.....Binomen **[Pomatomus saltator](#)** [Entrez](#) (F364) ()

Names:

Bluefish (E)
Pomatomus saltator (L)
Cheilodipterus heptacanthus (Syn)
Cheilodipterus saltatrix (Syn)
Chromis epicurorum (Syn)
Gasterosteus saltatrix (Syn)
Gonenion serra (Syn)
Lopharis mediterraneus (Syn)
Perca lophar (Syn)
Pomatomus pedica (Syn)
Pomatomus saltatrix (Syn)
Pomatomus skib (Syn)
Scomer sypterus (Syn)
Sparactodon nalnal (Syn)
Sypterus pallasii (Syn)
Temnodon conidens (Syn)
Temnodon saltator (Syn)
Temnodon tubulus (Syn)
Chopper (E)
Tailor (E)
Snapper Blue (E)
Tassergal (FR)
Anjova (Sp)
Sinikala (Fi)
Blaufisch (Gr)
Gofári (Gk)
Pesce serra (It)
Amikiri (Jp)
Anchova (Pr)

FIG. 36A

Plitica (SC)
Strijelka skakusa (Serb)
Lüfer (Tk)
Blue-fish (E)
Anchova (Pr)
Shad (E)
Elf (E)
Tekwaya (Ar)
Tekwa (Ar)
Tasergal (Po)
Teleskopabborre (Sw)
Dyphavsabbor (No)
Enchova (Pr)
Skipjack (E)
Anchova de banco (Sp)
Elwe (Af)

Data Views:
explode



Dump

Level: species

Delimiter: :

SQL outputs: parent/child & columns :
Pending

FIG. 36B

Various output formats served by the Name Server layer via a Taxonomic Name Server			
A table of all names and their qualifiers tns -nq "Name/Qualifier" -t-name "Pomatomus saltatrix"	A string containing the preferred name tns -pv -name "Pomatomus saltatrix" -s	A table with a specified list of taxa levels and the preferred name tns -c,pv,l "Kingdom,Phylum,Class,Order,Family,Genus,Species" -name "Pomatomus saltatrix"	The full ICZN classification with "##" as a delimiter tns -c,pv,a -name "Pomatomus saltatrix" -l-t## EUKARYOTES##Living_Organisms Kingdom## SubKingdom##OPISTHOKONTS ParvPhylum##Metazoa Phylum##Chordata Subphylum ##Vertebrata Superclass## Gnathostomata Class##Osteichthyes subClass## Actinopterygii SuperClass##Pisces Class##Actinopterygii Order##Perciformes
Name Qualifier		Kingdom Eukaryota	
Bluefish (E)	Pomatomus saltator	Phylum Chordata	
Pomatomus saltator (L)		Class Actinopterygii	
Cheilodipterus heptacanthus (Syn)		Order Perciformes	
Cheilodipterus saltatrix (Syn)		Family Pomatomidae	
Chromis epicurorum (Syn)		Genus Pomatomus	

FIG. 37A

Various output formats served by the Name Server layer via a Taxonomic Name Server		
Gasterosteus (Syn) saltatrix	Species saltator	Family##Pomatomidae Genus##Pomatomus Species##saltator
Gonenion serra (Syn)	or the same table with common English names tns -c,ce,l "Kingdom,Phylum,Class,Order,Family,Genus,Species" -name "Pomatomus saltatrix" -t:	
Lopharis (Syn) mediterraneus	Kingdom: EUKARYOTES	
Perca lophar (Syn)	Phylum: Animals with Backbones	
Pomatomus pedica (Syn)	Class: Ray-finned Fish	
Pomatomus (Syn) saltatrix	Order: Perches and Allies	
Pomatomus skib (Syn)	Family: Bluefish Family	
Scomer sypterus (Syn)	Genus: Bluefish	
Sparactodon nalnal (Syn)	Species: Bluefish	
Sypterus pallasii (Syn)		

FIG. 37B

Various output formats served by the Name Server layer via a Taxonomic Name Server			
Temnodon condens	(Syn)		
Temnodon saltator	(Syn)		
Temnodon tubulus	(Syn)		
Chopper	(E)		
Tailor	(E)		
Snapper Blue	(E)		

Fig. 37C

EntityID Name URL

AR1001 Pomatomus saltatrix <http://zeus.mbl.edu/ad.pl?>

ZT7801 Stenotomus chrysops <http://www.mbl.edu/animal..>

.....

.....

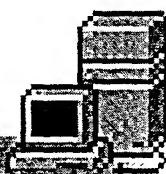
.....

Name Server

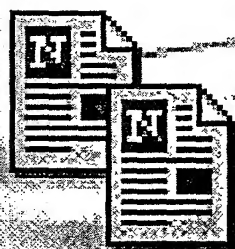
Taxonomic Data Server



index files



Web servers in domain



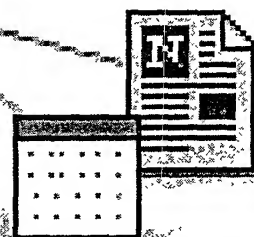
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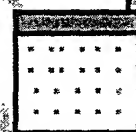
image database



full-text HTML



web databases



static HTML

Sites on animals

FIG. 38